

NAME _____

Module 13 Perimeter, Area, and Volume

Lesson 3 Area: Irregular Shapes

Lesson Objectives

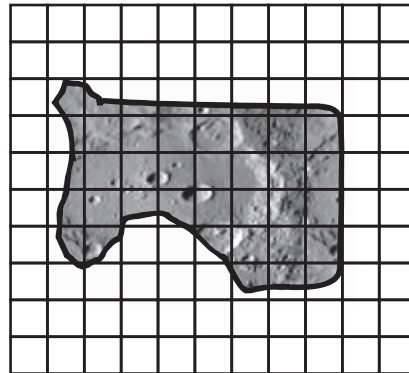
- Estimate and calculate the area of irregular two-dimensional shapes.
- Estimate and calculate the area of more complex or irregular two-dimensional shapes by dividing them into more basic shapes.

Subtopic 1 Estimating Areas of Irregular Shapes

To estimate the area of an irregular shape:

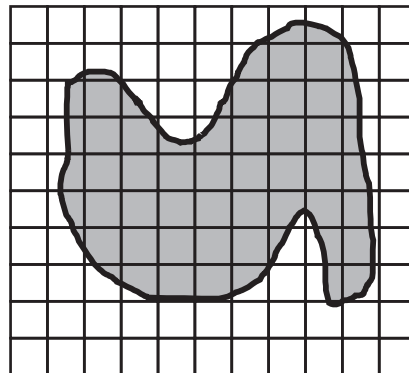
- Cover shape with a _____ of known side length.
- Let c = squares _____ inside the boundary.
- Let b = squares through which _____ passes.
- $A \approx$ _____

1 Estimate the area of the lunar region.



Each \square is 1 mi^2 .

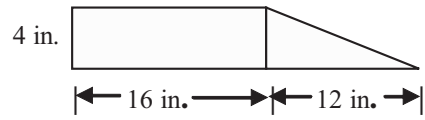
2 Estimate the area of the shape.



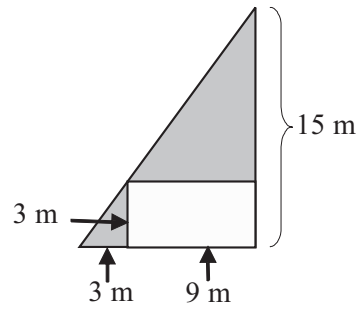
Each \square is 1 km^2 .

Subtopic 2 Areas of Combined Shapes

3 Find the area of the shape.



4 Find the area of the gray region.



5 Estimate the area of the gray region where the diameter of the circle is 13 inches.

